

SEQUENCE LISTING

<110> KROPSHOFER, H.
 VOGT, A.

<120> Method for the identification of antigenic peptides associated to
 diseases

<130> 21388

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<150> EP 02022223.8
 <151> 2002-02-10

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<170> PatentIn version 3.2

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Val Asp Gly Ile Leu Ser Asn Cys Gly Ile Glu Lys Glu Ser Asp Leu
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Cys

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Gly Thr Gln Gly Lys Ile Val Asp Leu Val Lys Glu Leu Asp Arg Asp
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Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys Val Gly
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Ser Lys

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Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys Val Gly Ser
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Lys

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Gly Tyr Pro Thr Ile Lys Ile Leu Lys Lys Gly Gln Ala Val Asp
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Tyr Pro Thr Ile Lys Ile Leu Lys Lys Gly Gln Ala Val Asp
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Ser Tyr Glu Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Asn Glu Arg
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Ala Lys Ile His Ile Asp Ile Val Leu Val Gly Gly Ser Thr Arg
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Asn Ala Leu Leu Val Arg Thr Lys Lys Val Pro Gln Val Ser
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Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys Ser Leu His Val Gly
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Met Asn Phe Ser Trp Ala Met Asp Leu Asp Phe Lys Gly Ala Asn
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Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp
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Phe Pro Glu Pro Ile Lys Leu Asp Asn Lys Asn Asp Arg Ala Lys Ala
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Ser

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His Thr Gly Ala Leu Tyr Arg Ile Gly Asp Leu Gln Ala Phe Gln Gly
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Thr Gly Ala Leu Tyr Arg Ile Gly Asp Leu Gln Ala Phe Gln
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Ala Lys Asn Gln Val Ala Met Asn Pro Thr Asn Thr Val Phe Asp Ala
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Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala Ile Ala Tyr
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Gly

<210> 37
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Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala Ile Ala
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Tyr Gly

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Ile Asp Lys Val Ile Ser Thr Ile Thr Asn Asn Ile Gln Gln
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Asp Asp Val Ile Leu Asn Glu Pro Ser Ala Asp Ala Pro Ala
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Lys Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr Asp Asp
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Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr Asp Asp Leu
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Tyr Pro Arg Ile Ser Val Asn Asn Val Leu Pro Val Phe Asp Asn
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Thr Thr Ala Phe Gln Tyr Ile Ile Asp Asn Lys Gly Ile Asp Ser Asp
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Thr Thr Ala Phe Gln Tyr Ile Ile Asp Asn Lys Gly Ile Asp Ser Asp
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Ala

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Leu Pro Gly Gln Leu Lys Pro Phe Glu Thr Leu Leu Ser Gln Asn Gln
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Leu Pro Gly Gln Leu Lys Pro Phe Glu Thr Leu Leu Ser Gln Asn Gln
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Gly

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Val Ser Asn Glu Ile Val Arg Phe Pro Thr Asp Gln Ile Thr Pro Asp
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Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg Ser Asn Ala
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Gln

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Thr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Ser Ser Trp
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Thr

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Leu Ala Val Val Lys Ser Ile Arg Ser Ile Pro Tyr Leu Ala
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Leu Leu Ala Val Val Lys Ser Ile Arg Ser Ile Pro Tyr Leu Ala
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Val Ala Asp Lys Ile Gln Leu Ile Asn Met Leu Asp Lys
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Asp Gln Val Ile Lys Val Phe Asn Asp Met Lys Val Arg Lys
1 5 10

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Leu Arg Thr Ile Asp Val Phe Asp Gly Asn Ser Gly Lys Met Met
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Gly Lys Val Asp Ile Val Ala Ile Asn Asp Pro Phe Ile Asp Leu
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Asp Asp Ile Arg Gly Ile Gln Ser Leu Tyr Gly Asp Pro Lys
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Ala Asp Asp Ile Arg Gly Ile Gln Ser Leu Tyr Gly Asp Pro Lys
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Ser Ser Asn Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu
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Gly Pro Leu Lys Phe Leu His Gln Asp Ile Asp Ser Gly Gln Gly
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<400> 64

Gly Pro Leu Lys Phe Leu His Gln Asp Ile Asp Ser Gly Gln Gly Ile
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Arg

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Val Lys Ser Glu Ile Ile Pro Met Phe Ser Asn Leu Ala Ser Asp Glu
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Gln

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Gly Ser His Ser Met Arg Tyr Phe His Thr Ala Met Ser Arg Pro Gly
1 5 10 15

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Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Ser Ser Trp Thr
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Ala

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Lys Arg Lys Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys Arg
1 5 10 15

<210> 69
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Lys Arg Lys Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys
1 5 10 15

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Ala Lys Arg Lys Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys
1 5 10 15

Arg

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Ser Pro Lys Tyr Ile Lys Met Phe Val Leu Asp Glu Ala Asp Glu
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<400> 72

Ser Pro Lys Tyr Ile Lys Met Phe Val Leu Asp Glu Ala Asp Glu Met
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<210> 73
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<400> 73

Gly Ser Ser Arg Val Leu Ile Thr Thr Asp Leu Leu Ala Arg Gly Ile
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Asp Val

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<400> 74

Thr Ala Gln Val Ile Ile Leu Asn His Pro Gly Gln Ile Ser Ala Gly
1 5 10 15

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Val Ile Ile Leu Asn His Pro Gly Gln Ile Ser Ala Gly
1 5 10

<210> 76
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<400> 76

Val Tyr Lys Val Leu Lys Gln Val His Pro Asp Thr Gly Ile Ser Ser
1 5 10 15

Lys

<210> 77
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<400> 77

Lys Val Leu Lys Gln Val His Pro Asp Thr Gly Ile Ser Ser
1 5 10

<210> 78
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<400> 78

Lys Val Leu Lys Gln Val His Pro Asp Thr Gly Ile Ser Ser Lys
1 5 10 15

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<400> 79

Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg Glu
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Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg
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His Asn Ser Leu Ile Ala Ser Ile Leu Asp Pro Tyr Ser Asn Ala Phe
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<210> 82
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Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys
1 5 10 15

<210> 83
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<400> 83

Asn Arg Gln Val Asn Lys Lys Leu Asn Lys Thr Asp Leu Pro Lys Leu
1 5 10 15

Leu

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<400> 84

Ala Glu Phe Leu Leu His Met Leu Lys Asn Ala Glu Ser Asn Ala Glu
1 5 10 15

Leu

<210> 85
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<400> 85

Ser Pro Lys Tyr Ile Lys Met Phe Val Leu Asp Glu Ala Asp Glu
1 5 10 15

<210> 86
<211> 18
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Pro Gly Lys Thr Gly Thr Ile Val Tyr Gln Arg Gly Ile Leu Leu Pro
1 5 10 15

Gln Lys

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<213> Influenza B virus

<400> 87

Lys Pro Gly Lys Thr Gly Thr Ile Val Tyr Gln Arg Gly Ile Leu Leu
1 5 10 15

Pro Gln

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<212> PRT

<213> Influenza B virus

<400> 88

Lys Pro Gly Lys Thr Gly Thr Ile Val Tyr Gln Arg Gly Ile Leu Leu
1 5 10 15

Pro Gln Lys

<210> 89

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<212> PRT

<213> Influenza B virus

<400> 89

Lys Pro Gly Lys Thr Gly Thr Ile Val Tyr Gln Arg Gly Ile Leu Leu
1 5 10 15

Pro Gln Lys Val
20

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<213> Influenza B virus

<400> 90

Asp Arg Ile Cys Thr Gly Ile Thr Ser Ser Asn Ser Pro His Val Val
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Lys Thr Ala Thr Gln Gly Glu Val Asn Val Thr Gly Val Ile Pro Leu
20 25 30

Thr Thr Thr Pro Thr Lys Ser His Phe Ala Asn Leu Lys Gly Thr Lys
35 40 45

Thr Arg Gly Lys Leu Cys Pro Thr Cys Leu Asn Cys Thr Asp Leu Asp
 50 55 60

Val Ala Leu Gly Arg Pro Met Cys Val Gly Val Thr Pro Ser Ala Lys
 65 70 75 80

Ala Ser Ile Leu His Glu Val Arg Pro Val Thr Ser Gly Cys Phe Pro
 85 90 95

Ile Met His Asp Arg Thr Lys Ile Arg Gln Leu Pro Asn Leu Leu Arg
 100 105 110

Gly Tyr Glu Lys Ile Arg Leu Ser Thr Gln Asn Val Ile Asn Ala Glu
 115 120 125

Lys Ala Pro Gly Gly Pro Tyr Arg Leu Gly Thr Ser Gly Ser Cys Pro
 130 135 140

Asn Ala Thr Ser Arg Ser Gly Phe Phe Ala Thr Met Ala Trp Ala Val
 145 150 155 160

Pro Lys Asp Asn Asn Lys Thr Ala Thr Asn Pro Leu Thr Val Glu Val
 165 170 175

Pro His Ile Cys Thr Lys Glu Glu Asp Gln Ile Thr Val Trp Gly Phe
 180 185 190

His Ser Asp Asn Lys Thr Gln Met Lys Asn Leu Tyr Gly Asp Ser Asn
 195 200 205

Pro Gln Lys Phe Thr Ser Ser Ala Asn Gly Val Thr Thr His Tyr Val
 210 215 220

Ser Gln Ile Gly Gly Phe Pro Asp Gln Thr Glu Asp Gly Gly Leu Pro
 225 230 235 240

Gln Ser Gly Arg Ile Val Val Asp Tyr Met Val Gln Lys Pro Gly Lys
 245 250 255

Thr Gly Thr Ile Val Tyr Gln Arg Gly Ile Leu Leu Pro Gln Lys Val
 260 265 270

Trp Cys Ala Ser Gly Arg Ser Lys Val Ile Lys Gly Ser Leu Pro Leu
 275 280 285

Ile Gly Glu Ala Asp Cys Leu His Glu Lys Tyr Gly Gly Leu Asn Lys
290 295 300

Ser Lys Pro Tyr Tyr Thr Gly Glu His Ala Lys Ala Ile Gly Asn Cys
305 310 315 320

Pro Ile Trp Val Lys Thr Pro Leu Lys Leu Ala Asn Gly Thr Lys Tyr
325 330 335

Arg Pro Pro Ala Lys Leu Leu Lys Glu Arg
340 345